



SECOR  
INTERNATIONAL  
INCORPORATED

[www.secorm.com](http://www.secorm.com)

290 Conejo Ridge Avenue  
Thousand Oaks, CA 91361  
805-230-1266 TEL  
805-230-1277 FAX

September 21, 2005

Mr. Arman Toumari  
California Regional Water Quality Control Board  
Los Angeles Region  
320 W. 4<sup>th</sup> Street  
Los Angeles, California 90013

**Subject: WELL ABANDONMENT REPORT**

ARCO Station No. 1992  
9454 Corbin Avenue  
Northridge, California  
File No. 913240707A

Dear Mr. Toumari:

SECOR International Incorporated (SECOR), on behalf of the Atlantic Richfield Company (Atlantic Richfield), is pleased to present this *Well Abandonment Report* for ARCO Station No. 1992 (Site), located at 9454 Corbin Avenue, in Northridge, California (Figure 1 and 2). On December 22, 2004, the Los Angeles Regional Water Quality Control Board (LARWQCB) issued a letter stating that "no further action is required at this time" (Appendix A). It was determined that three soil vapor extraction (SVE) wells (VW-2, VW-4, and VW-9) and three groundwater monitoring wells (MW-14, MW-15R, and MW-16) installed during Site assessment activities should be abandoned.

The scope of work completed during the well abandonment consisted of the following activities:

- Obtained well abandonment permit from the Los Angeles Department of Health Services (LADHS; Appendix B);
- Abandoned three SVE wells (VW-2, VW-4 and VW-9) and three groundwater monitoring wells (MW-14, MW-15R and MW-16) by overdrilling and pressure grouting; and
- Prepared technical report.

#### SITE DESCRIPTION

The Site is an active retail gas station and AM/PM minimart located on the southeast corner of Plummer Street and Corbin Avenue in the City of Northridge, California (Figures 1 and 2). The Site is situated at an elevation of approximately 870 feet above mean sea level (msl). Local topography slopes to the southeast at approximately 0.015 feet per foot (USGS, 1952).

For a detailed description of previous investigations, please refer to SECOR's *Groundwater Monitoring Well Abandonment and Reinstallation Report* dated January 6, 2004.

## **WELL ABANDONMENT**

On March 16 to 17, and August 2 and 3, 2005, SECOR abandoned three SVE wells (VW-2, VW-4 and VW-9) and three (groundwater monitoring wells MW-14, MW-15R and MW-16) (Figure 2). Well abandonment was completed using a CME-75 drill rig equipped with 11-inch diameter hollow-stem augers provided by Cascade Drilling, Inc. of Norwalk, California (C-57 #717510). All work was directed by a qualified SECOR geologist working under the direct supervision of a State of California Registered Geologist.

Initially, the LADHS requested that all groundwater monitoring wells be destroyed by overdrilling, however due to the close proximity of utilities and vent lines, wells MW-14 and VW-4 were pressure grouted to their respective total depth using a six sack per 55-gallon drum mixture of Portland Low Alkali Type I-II cement mixed with approximately five percent hydrogel powder. Pressure grouting was completed by pumping cement into the individual well casings, capping the wells with a metal block equipped with pressure fitting, and applying approximately 60 pounds per square inch (psi) of pressure for approximately ten minutes. This procedure was re-applied until no continued noticeable drop in the grout levels was observed. All well boxes were then jack hammered out and removed, and backfilled with concrete finished flush and dyed to match the existing surface.

SECOR properly abandoned two groundwater monitoring wells (MW-15R and MW-16) and two vapor wells (VW-2 and VW-9) in accordance with State of California Water Well Standards (Bulletins 74-81 and 74-90). The well borings were over-drilled and destroyed to the total depth of the well (approximately 75 feet bgs for the vapor wells VW-2 and VW-9, and 105 feet bgs for the groundwater monitoring wells MW-15R and MW-16), and well materials (casing, sanitary seals, and filter pack) were removed utilizing a drill rig equipped with ten-inch diameter hollow-stem augers. The destroyed well boring was tremied/backfilled from total depth to approximately five feet bgs using a six sack per 55-gallon drum mixture of Portland Low Alkali Type I-II cement mixed with approximately five percent bentonite hydrogel grout and bridged with hydrated bentonite chips from two to five feet bgs. The remaining two feet were finished with 2000-psi concrete finished flush to match the existing surface grade.

Table 1 summarizes the well construction and destruction details, tabulates the calculated volume of grout required to fill one casing volume, and includes the approximate volume of cement grout used to pressure grout each individual well.

## **WASTE DISPOSAL**

Soil cuttings generated during drilling activities were placed in labeled, DOT-approved 55-gallon steel drums and stored on Site. One confirmation soil sample (Drum 1) was collected from the soil drums and relinquished to Del Mar Analytical of Irvine, California (Del Mar) for chemical analysis. Del Mar is an Atlantic Richfield Company-contracted and California Department of Health Services certified laboratory. Following analytical characterization, the soil drums were removed from the Site by Belshire Environmental, Inc. and transported to TPS Technologies, Inc., in Adelanto, California, for recycling. Waste disposal documentation is presented in Appendix C. Copies of the certified laboratory analytical report and chain-of-custody documentation are included in Appendix D.

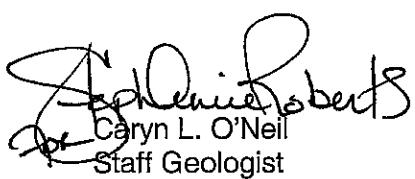
## STANDARD LIMITATIONS

All work was performed under the supervision of a registered geologist as defined in the Registered Geologist Act of the California Code of Regulations. The information contained in this report represents SECOR's professional opinions, and is based in part on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

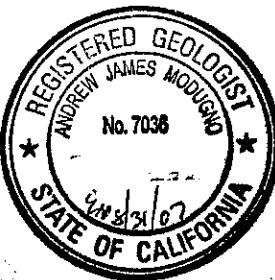
If you have any questions regarding this Site or report, please do not hesitate to contact the undersigned at (805) 230-1266.

Sincerely,

**SECOR International Incorporated**



Caryn L. O'Neil  
Staff Geologist



Andrew Modugno, R.G. No. 7036  
Senior Geologist  
Project Manager

Attachments: Figure 1 – Site Location Map  
Figure 2 – Site Map Showing Abandoned Well Locations  
Table 1 – Summary of Well Construction/Destruction Details  
Appendix A – LARWQCB Correspondence  
Appendix B – LADHS Well Abandonment Permit  
Appendix C – Waste Disposal Documentation  
Appendix D – Laboratory Analytical Reports and Chain-of-Custody Documents

cc: Mr. Ray Vose - Atlantic Richfield Company  
LADHS – Michael Lui, Water & Sewage/ Mountain & Rural Programs –  
Environmental Health division, 5050 Commerce Drive, Baldwin Park, CA 91706

## REFERENCES

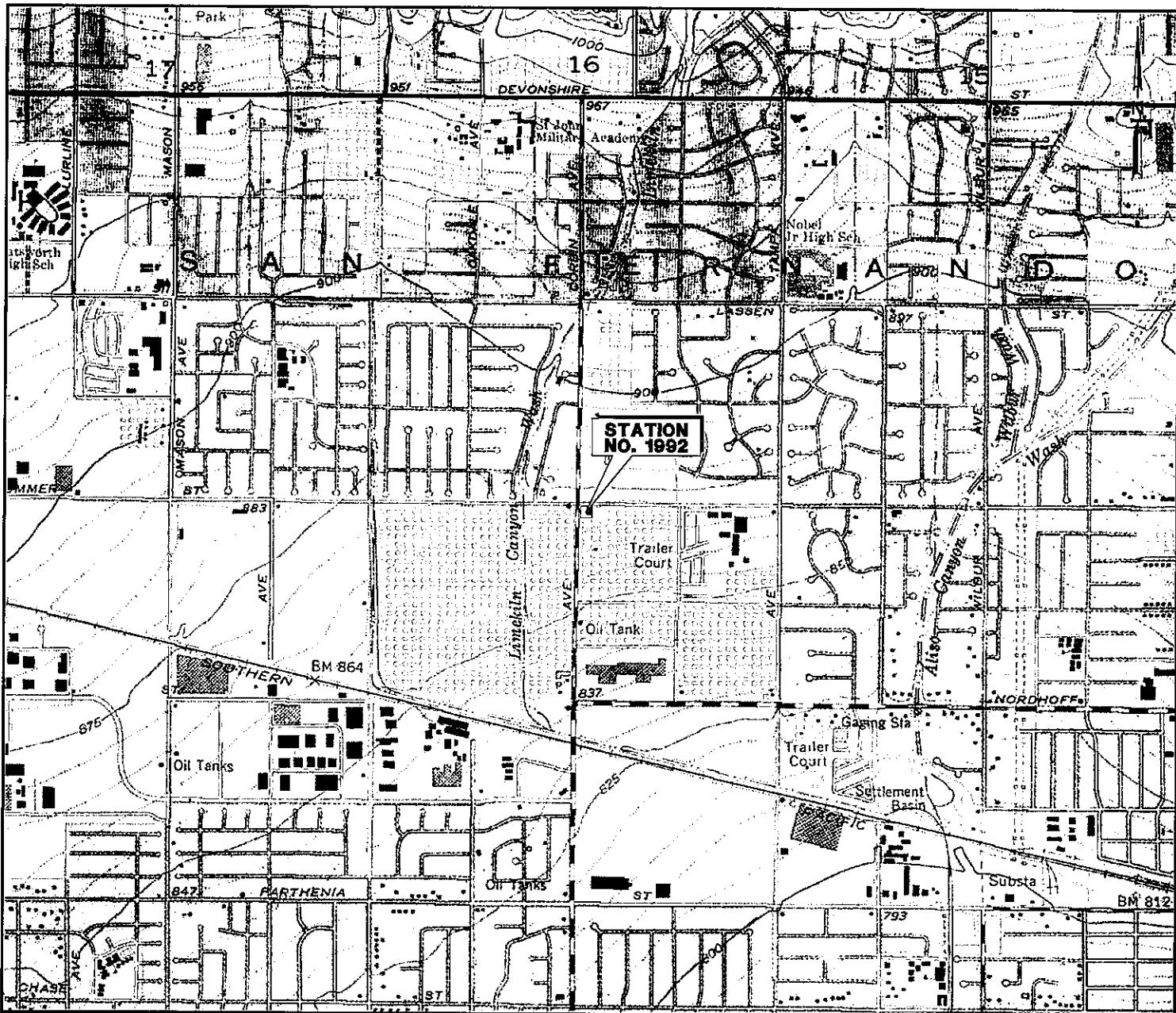
SECOR, 2004, *Groundwater Monitoring Well Abandonment and Reinstallation Report*, ARCO Station 1992, 9454 Corbin Avenue, Northridge, California, January 6.

State of California Water Well Standards (Bulletins 74-81 and 74-90).

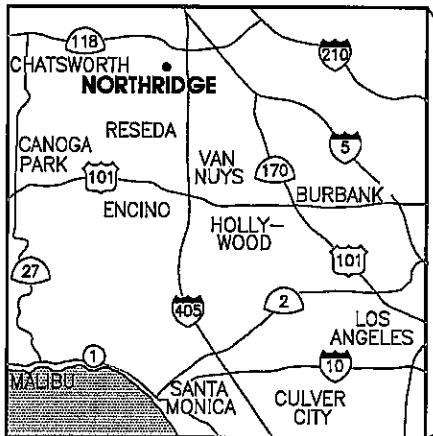
United States Geological Survey (USGS), 1952, *Oat Mountain Quadrangle*, – Los Angeles County, 7.5 minute series (topographic), photo-revised 1969: USGS, scale 1:24,000, 1 sheet.

United States Geological Survey (USGS), 1952, *Canoga Park Quadrangle*, – Los Angeles County, 7.5 minute series (topographic), photo-revised 1967: USGS, scale 1:24,000, 1 sheet.

## **FIGURES**



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAT MOUNTAIN QUADRANGLE, 1952  
PHOTOREVISED 1969  
CANOGA PARK QUADRANGLE, 1952  
PHOTOREVISED 1967

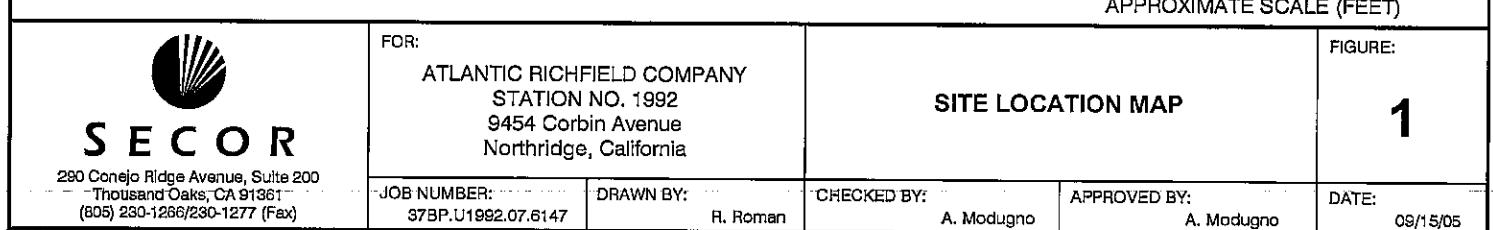


0                    2000                    4000

**APPROXIMATE SCALE (FEET)**

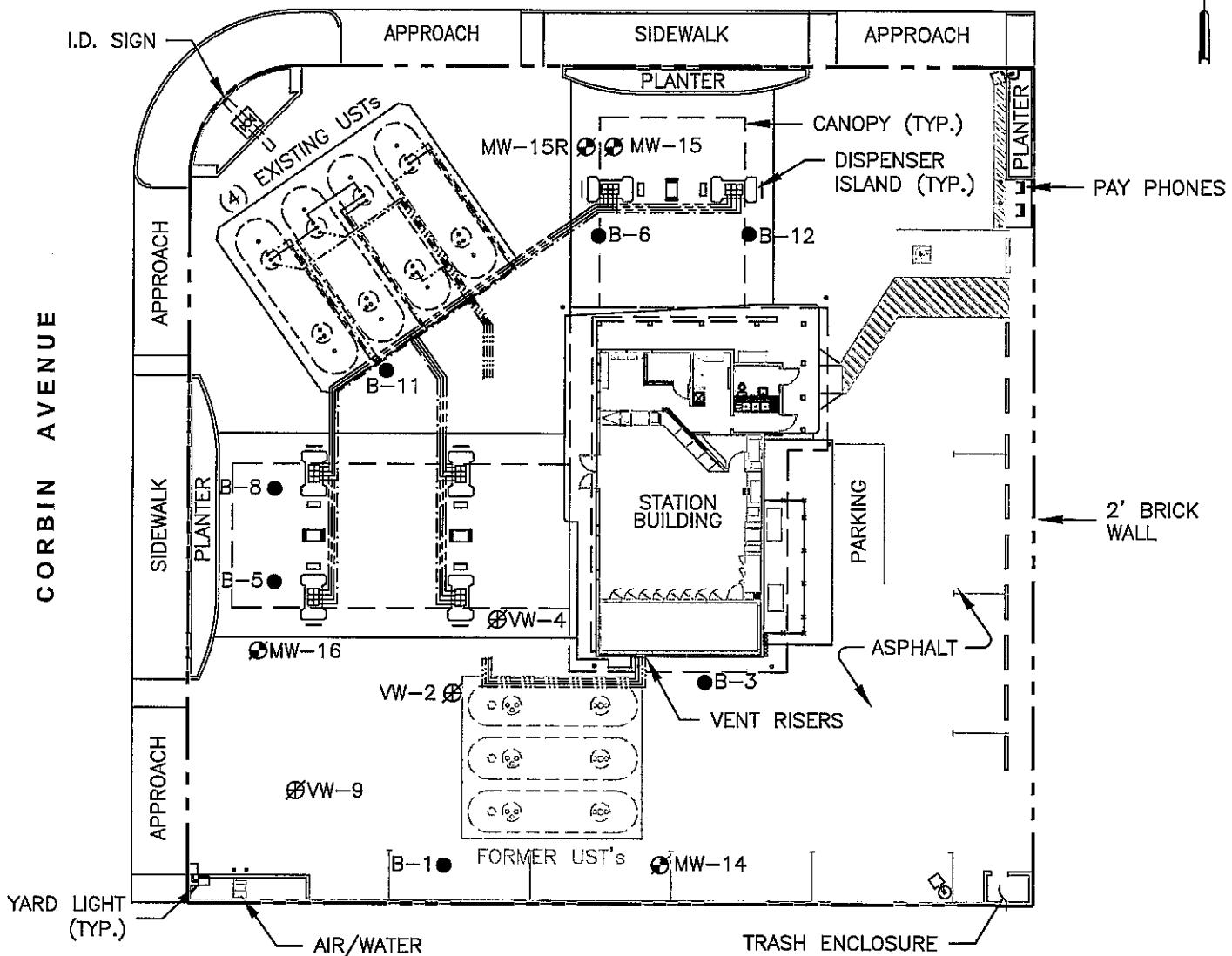


4000



# PLUMMER STREET

N



### NOTES:

1. MAP REFERENCE: BROWN AND CALDWELL, DATED MAY 19, 1995. F. F. & ASSOCIATES, DATED NOVEMBER 29, 1999. SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
2. GROUNDWATER MONITORING AND VAPOR EXTRACTION WELL LOCATIONS SURVEYED BY WM HOLDINGS INC. DATED SEPTEMBER 12, 2003. NAD 83 CALIFORNIA STATE PLANE, ZONE 5 (FT.).

0 30 60

APPROXIMATE SCALE (FEET)

 <b>SECOR</b> <small>290 Conejo Ridge Avenue, Suite 200 Thousand Oaks, CA 91361 (805) 230-1266/230-1277 (Fax)</small>	<b>FOR:</b> ATLANTIC RICHFIELD COMPANY STATION NO. 1992 9454 Corbin Avenue Northridge, California	<b>SITE MAP SHOWING ABANDONED WELL LOCATIONS</b>		<b>FIGURE:</b> <b>2</b>
		<b>JOB NUMBER:</b> 37BP.U1992.07.6147	<b>DRAWN BY:</b> R. Roman	
		<b>CHECKED BY:</b> A. Modugno	<b>APPROVED BY:</b> A. Modugno	<b>DATE:</b> 09/15/05

## **TABLES**

**Table 1**  
**Summary of Well Construction/Destruction Details**  
**ARCO Station No. 1992**  
**Northridge, California**

Well ID. No.	Well Abandonment Date	Well Diameter (in.)	Depth (ft bgs)	Screened Interval(s) (ft bgs)	Calculated Grout Needed - One Casing Volume (gal)	Grout Volume Used* (gal)	Depth Overdrilled (ft bgs)
MW-14	3/17 & 3/18/05	4	105	75-105	68	120	pressure grout
MW-15R	8/2/2005	4	105	75-105	68	495	105
MW-16	3/17/2005	4	105	75-105	68	405	105
VW-2	3/16/2005	4	80	10-35 40-80	54	90	80
VW-4	8/3/2005	4	75	10-35 45-75	50	90	pressure grout
VW-9	3/16/2005	4	75	10-35 45-75	50	100	75

**Notes:**

in = inches

ft bgs = feet below ground surface

gal = gallons

\* = The grout volume used is an estimate based on the number of portland cement and hydrogel chips used to mix approximately 45-gallons of grout in a 55-gallon drum.

**APPENDIX A**  
**LARWQCB Correspondence**



Dr. Alan Lloyd  
Secretary for  
Environmental  
Protection

# California Regional Water Quality Control Board

## Los Angeles Region

Over 54 Years Serving Coastal Los Angeles and Ventura Counties  
Recipient of the 2001 Environmental Leadership Award from Keep California Beautiful



Arnold Schwarzenegger  
Governor

320 W. 4th Street, Suite 200, Los Angeles, California 90013  
Phone (213) 576-6600 - FAX (213) 576-6640 - Internet Address: <http://www.waterboards.ca.gov/losangeles>

December 22, 2004

Ray Vose  
Arco Products Company  
4 Centerpointe Drive  
La Palma, CA 90623

### UNDERGROUND STORAGE TANKS PROGRAM – CASE CLOSURE ARCO SERVICE STATION #1992 9454 CORBIN AVENUE, NORTHRIDGE, CA (FILE NO. 913240707A)

Dear Mr. Vose:

This letter confirms the completion of a site investigation and corrective action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

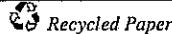
Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground tank(s) site is in compliance with the requirements of subdivision (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code.

Because the subject site currently contains active underground storage gasoline tanks, we recommend that you properly maintain all existing monitoring wells and/or vapor extraction wells onsite, so that they would be available should further monitoring is deemed necessary. However, if you choose to abandon these wells, you must comply with the following:

1. All wells must be properly located and abandoned.
2. Well abandonment permits and all other necessary permits must be obtained from the appropriate agencies prior to the start of work.
3. You must submit a report on the abandonment of the wells to this office by **February 25, 2005**. This report must include, at a minimum, a site map, a description of the well abandonment process, and copies of all signed permits.

*California Environmental Protection Agency*



*Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.*

Ray Vose  
Arco Service Station #1992

-2-

December 22, 2004

**Please contact Dr. Yi Lu at (213) 576-6695 or Mr. Arman Toumari at (213) 576-6758, if you have any questions regarding this matter.**

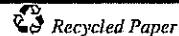
Sincerely,

**ORIGINAL SIGNED BY**

Jonathan S. Bishop  
Executive Officer

cc: Tim Smith, L.A. County DPW, Environmental Program Division  
Nancy Matsumoto, Water Replenishment District of Southern California  
Andrew Modugno, SECOR

*California Environmental Protection Agency*



*Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.*

**APPENDIX B**

LADHS Well Abandonment Permit

## WELL PERMIT APPLICATION

WATER & SEWAGE / MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION  
5050 COMMERCE DRIVE, BALDWIN PARK, CA 91706 (626) 430-5380 FAX (626) 813-3016

## NON-PRODUCTION WELLS

DATE:

<input checked="" type="checkbox"/> NEW WELL CONSTRUCTION	<input checked="" type="checkbox"/> MONITORING	<input type="checkbox"/> HEAT EXCHANGE
<input type="checkbox"/> RECONSTRUCTION OR RENOVATION	<input type="checkbox"/> CATHODIC	<input type="checkbox"/> OTHER (Specify):
<input type="checkbox"/> DECOMMISSIONING	<input type="checkbox"/> INJECTION	
<input type="checkbox"/> OTHER:	<input type="checkbox"/> EXTRACTION	

WELL LOCATION	STREET ADDRESS	CITY	ZIP CODE	
	Township	Range	Section	Map Book Page/ Grid
NO. OF WELLS IN EACH PARCEL:		Attach site map with well locations Apn # 2761-036-055		

WELL STRUCTURE	Type and Size of Production Casing		DRAFTED
	Sanitary / Annular Sealing Material		
	Depth of Sanitary / Annular Seal		
	Conductor Casing Size		

OWNER / DRILLER INFORMATION	Well Owner	ATLANTIC Richfield Co.
	Address	4 Centaspano Dr.
	City / Zip Code	LA PALMA, CA 90623
	Telephone	(818) 957-1755
	Well Driller	CASCADE DRILLING INC.
	Address	11250 E. Firestone Blvd.
	City / Zip Code	Norwalk, CA 90650
O-57 License No.	717510	
Telephone	(562) 929-8176	

WELL DECOMMISSIONING	Well Depth Log / records	105' SEE ATTACHED	DRAFTED
	Method of Well Abandonment	Boring log	
	Depth and Number of Perforations	75-105'	
	Type of Perforator Size of Perforations	0.010 slot	
	Type and Amount of Sealant	PRESSURE Grout +	
	Method of Upper Seal Pressure Application	Abs mud	

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and within thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by the County Environmental Health Division.

Applicant's Signature

Applicant Name: (PRINT) Andrew Modugno  
Telephone: (805) 230-1266 ext 237

Company	SECORE International Inc.	DRAFTED
Contact Person	Andrew Modugno	
Address	290 Conejo Ridge Ave.	
City, State Zip	Thousand Oaks, Ca 91361	
Telephone	(805) 492-230-1266 ext 237	

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED.

DISPOSITION OF PERMIT (Department Use Only)  
THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED AND WHEN THE WELL COMPLETION LOG IS RECEIVED. NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT.

WORK PLAN APPROVAL	
This Approval is Valid for 180 Days	
Date	3-8-05
REHS	Myron J. [Signature]
Conditions	

OVERDRILL ALL WELLS TO TOTAL DEPTH (REMOVE ALL WELL COMPONENTS), BACKFILL THE BOREHOLES w/ NEAT CEMENT MIXED AT A 0.5 WATER-CEMENT RATIO (BY WEIGHT) AND APPLY SEALANT VIA TRECIE PIPE METHOD.  
NOTE - UP TO 5% BENTONITE BY WEIGHT MAY BE USED w/ THE NEAT CEMENT AT 1 GALLON OF WATER TO 2 POUNDS OF APPROVED BENTONITE.

FINAL INSPECTION	
Date	9-16-05
REHS	[Signature]

PERMIT ISSUED	
The well log must be submitted to this Department prior to issuance of the final approval	
Date	9-16-05
REHS	[Signature]

## **APPENDIX C**

### **Waste Disposal Documentation**

## TPS Technologies Soil Recycling

Manifest

Non-Hazardous Soils

Manifest

<b>Generator and/or Consultant</b>	Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPS:	Load #	
	7/05	BEST		07	255810	01011	
Generator's Name and Billing Address: <b>BP West Coast Products LLC P.O. BOX 80249 RANCHO SANTA MARGARITA, CA 92688</b>			Generator's Phone #:	Generator's US EPA ID No.			
			Person to Contact:				
			FAX#:	Customer Account Number with TPS:			
Consultant's Name and Billing Address:			Consultant's Phone #:				
			Person to Contact:				
			FAX#:	Customer Account Number with TPS:			
Generation Site (Transport from): (name & address) <b>ARCO #1992 9454 CORBIN AVE NORTHRIDGE, CA</b>			Site Phone #:	BTEX Levels			
			Person to Contact:	TPH Levels			
			FAX#:	AVG. Levels			
Designated Facility (Transport to): (name & address) <b>TPS TECHNOLOGIES, INC. 12328 HIBISCUS AVENUE ADELANTO, CA 92301</b>			Facility Phone #:	Facility Permit Numbers			
			<b>800-862-8001</b>				
			Person to Contact:				
			<b>DELEENA JEFFREY</b>				
			FAX#:				
			<b>760-246-8004</b>				
Transporter Name and Mailing Address: <b>BELSHIRE ENVIRONMENTAL 25971 TOWNE CENTRE DRIVE LAKE FOREST, CA 92610</b>			Transporter's Phone #:	Transporter's US EPA ID No.:			
			<b>949-460-3200</b>	<b>CAD963184681</b>			
			Person to Contact:	Transporter's DOT No.:			
			<b>Larry Moothart</b>	<b>450547</b>			
			FAX#:	Customer Account Number with TPS:			
			<b>949-460-3210</b>	<b>1000153</b>			
Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	411MS		41800	2380	2420
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					1.21
List any exception to items listed above: <b>106563</b>							
Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.							
Print or Type Name: <b>Larry Moothart BEST on behalf of ARCO</b>				Signature and date:	Month <b>8</b>	Day <b>29</b>	Year <b>05</b>
Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.							
Print or Type Name: <b>RAGU R. LARSON (R0213204)</b>				Signature and date:	Month <b>9</b>	Day <b>9</b>	Year <b>05</b>
Discrepancies: <b>FACT# 1992 ID# 35841</b>							
Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:							
Print or Type Name: <b>D. JEFFREY / J. PROVANSOL</b>				Signature and date:	<b>9/9/05</b>		

10  
NO. 647215

## NON-HAZARDOUS WASTE DATA FORM

NAME <b>ARCO PRODUCTS COMPANY</b>		EPA ID. NO. <b>ARCO #1992</b>	
ADDRESS <b>P.O. BOX 80249</b>		PROFILE NO. <b>9454 CORBIN AVE</b>	
CITY, STATE, ZIP <b>RANCHO SANTA MARGARITA, CA 92688</b>		PHONE NO. ( ) <b>NORTHRIDGE, CA 91324</b>	
CONTAINERS: No.		VOLUME <b>55</b>	WEIGHT _____
TYPE: <input checked="" type="checkbox"/> TANK TRUCK <input type="checkbox"/> DUMP TRUCK <input checked="" type="checkbox"/> HAZARDOUS <input type="checkbox"/> CARTONS <input type="checkbox"/> OTHER		WELL PURGING/DECON WATER	
WASTE DESCRIPTION COMPONENTS OF WASTE <b>NON-HAZARDOUS WATER</b>		GENERATING PROCESS COMPONENTS OF WASTE	
WATER      99-100%		PPM      %	
1. TPH      <1%		5. _____	
2. _____		6. _____	
3. _____		7. _____	
4. _____		8. _____	
PROPERTIES: pH <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> SLUDGE <input type="checkbox"/> SLURRY <input type="checkbox"/> OTHER		RESI#11163613.02	
WEAR ALL APPROPRIATE PROTECTIVE CLOTHING			
HANDLING INSTRUCTIONS:			
THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.		Larry Montanez <i>SEAL for ARCO</i> TYPED OR PRINTED FULL NAME & SIGNATURE	
NAME <b>Belshire Environmental Services, Nieto and Sons</b>		EPA ID. NO. <b>1234567890</b>	
ADDRESS <b>25971 TOWNE CENTRE DRIVE</b>		SERVICE ORDER NO. <b>1281 Brea Canyon Road</b>	
CITY, STATE, ZIP <b>Lake Forest, CA 92610</b>		PICK UP DATE <b>Brea, CA 92821</b>	
PHONE NO. <b>949-460-5200</b>		(714) 990-6955	
TRUCK, UNIT, I.D. NO. <b>347 377</b>		TYPED OR PRINTED FULL NAME & SIGNATURE <b>Avalos Lili</b>	
NAME <b>DeMenno Kardon</b>		EPA ID. NO. <b>1234567890</b>	
ADDRESS <b>2000 N. Alameda St</b>		DISPOSAL METHOD <input type="checkbox"/> LANDFILL <input checked="" type="checkbox"/> OTHER	
CITY, STATE, ZIP <b>Compton, CA 90222</b>		RECYCLER	
PHONE NO. <b>310-537-7100</b>		<i>Arrive 11/14/05</i>	
TYPED OR PRINTED FULL NAME & SIGNATURE			
DATE <b>09 14 05</b>			
GEN	OLD/NEW	L S	A B TONS
TRANS			
C/D	RT/CD	RWDF	NONE
DISCREPANCY			

## TPS Technologies Soil Recycling

Manifest

Non-Hazardous Soils

Manifest

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPS:	Load #		
1/15/05	BRGJY	5021722		24710	1001		
Generator's Name and Billing Address:  BP West Coast Products LLC P.O. BOX 60249 MANCHO SANTA MARGARITA, CA 92688			Generator's Phone #:	Generator's US EPA ID No.			
			Person to Contact:				
			FAX#:	Customer Account Number with TPS:			
Consultant's Name and Billing Address:			Consultant's Phone #:				
			Person to Contact:				
			FAX#:	Customer Account Number with TPS:			
Generation Site (Transport from): (name & address)  ARCO #1992 9434 CORBIN AVE NORTHRIDGE, CA			Site Phone #:	BTEX Levels			
			Person to Contact:	TPH Levels			
			FAX#:	AVG. Levels			
Designated Facility (Transport to): (name & address)  TPS TECHNOLOGIES, INC. 12328 HIBISCUS AVENUE ADELANTO, CA 92301			Facility Phone #:	Facility Permit Numbers			
			200-862-6001				
			Person to Contact:				
			DELEENA JEFFREY				
			FAX#:				
			760-245-8004				
Transporter Name and Mailing Address:  BELSHIRE ENVIRONMENTAL 29571 TOWNE CENTRE DRIVE LAKE FOREST, CA 92610  BESL# 109679.02			Transporter's Phone #:	Transporter's US EPA ID No.: CA0983584681			
			949-450-5200				
			Person to Contact:	Transporter's DOT No.: 450647			
			Larry Woodhart				
			FAX#:	Customer Account Number with TPS: 1000193			
			949-450-5210				
Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	7 DMS		9780	5040	4740
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					237
List any exception to items listed above:  1/21/05							
Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.							
Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/> Larry Woodhart RESEND on behalf of ARCO				Signature and date:	Month	Day	Year
					1/12	05	
Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.							
Print or Type Name: Art Rodriguez (RGM)				Signature and date: 1/13	Month	Day	Year
					1/13	05	
Discrepancies:  FAC# <u>1992</u> ID# <u>28614</u>							
Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:							
Print or Type Name: D. JEFFREY / J. PROVANSOL				Signature and date: 1/14/05			
Please print or type							

TRANSPORTER COPY

NO. 650615

## NON-HAZARDOUS WASTE DATA FORM

SITE 1

EPA  
I.D.  
NO.

ARCO PRODUCTS COMPANY

ARCO #1992

NAME  
P.O. BOX 802499454 COREN AVE PROFILE  
NO.ADDRESS  
RANCHO SANTA MARGARITA, CA 92688 NORTHridge, CA 91324

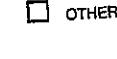
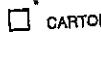
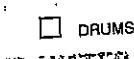
PHONE NO. ( ) - ) - ) - )

CITY, STATE, ZIP

CONTAINERS: No.

VOLUME 220 gallons WEIGHT /

TYPE:



WELL PURGING/DECON WATER

WASTE DESCRIPTION  
COMPONENTS OF WASTEPPM  
95-100%

%

GENERATING PROCESS  
COMPONENTS OF WASTE

PPM X

%

WATER

1. TPH 41%

5. \_\_\_\_\_ X

2. \_\_\_\_\_ X

6. \_\_\_\_\_ X

3. \_\_\_\_\_ X

7. \_\_\_\_\_ X

4. 7-10 pH LIQUID SLURRY OTHER

8. \_\_\_\_\_ X

PROPERTIES: pH SOLID LIQUID SLURRY OTHER

WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

HANDLING INSTRUCTIONS:

THE GENERATOR CERTIFIES THAT THE  
WASTE AS DESCRIBED IS 100%  
NON-HAZARDOUS.

Larry Moothart BEST FOR ARCO

04 - 11 - 05

DATE

TYPED OR PRINTED FULL NAME &amp; SIGNATURE

NAME

Galshire Environmental Services, Nieto and Sons,

EPA  
I.D.  
NO.

ADDRESS

25422 Trabuco Road #105-269 1281 Brea Canyon Road

SERVICE ORDER NO. X

CITY, STATE, ZIP

Lake Forest, CA 92690

PICK UP DATE 04 - 11 - 05

PHONE NO.

949-450-1010

(714) 990-6855

Steve Nieto (GG)

04 - 11 - 05

DATE

TRUCK, UNIT, I.D. NO.

DeManno Kardon

EPA  
I.D.  
NO.

DISPOSAL METHOD

NAME

2000 N. Alameda St.

 LANDFILL  OTHER X

ADDRESS

Compton, CA 90222

RECYCLER

CITY, STATE, ZIP

310-537-7100

PHONE NO.

FAC# 01992

TYPED OR PRINTED FULL NAME &amp; SIGNATURE

DATE

ID# 28647 29612

QUANTITY DISCREPANCY GREATER THAN 10% VARIATION RECONCILED

GEN	OLD/NEW	L	A	W	TNS
TRANS		S	B	OF	TONS
C/Q		RT/CD		HWDF	NONE


DISCREPANCY

RECEIVED

194

GALLONS

## **APPENDIX D**

### Laboratory Analytical Reports and Chain-of-Custody Documentation



# Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297  
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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851  
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

## LABORATORY REPORT

Prepared For: SECOR International, Inc.-Thousand Oaks  
290 Conejo Ridge Avenue, Suite 200  
Thousand Oaks, CA 91361

Attention: Lisa Moreno

Project: ARCO 1992, Northridge

Sampled: 03/21/05

Received: 03/22/05

Issued: 04/05/05 09:30

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain of Custody, 1 page, is included and is an integral part of this report.*

*This entire report was reviewed and approved for release.*

### CASE NARRATIVE

- SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.
- HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.
- PRESERVATION: Samples requiring preservation were verified prior to sample analysis.
- QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers. For QA/QC batch 5C 28020 for EPA 8260B/5035, MS/MSD not reported due to matrix interference. Analyzed LCS/LCSD.
- COMMENTS: Results that fall between the MDL and RL are 'J' flagged.
- SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IOC1750-01	GRAB-MW-16	Soil

Reviewed By:

Del Mar Analytical, Irvine  
Wendy Kirkeeng For Chris Roberts  
Project Manager



# Del Mar Analytical

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SECOR International, Inc.-Thousand Oaks  
290 Conejo Ridge Avenue, Suite 200  
Thousand Oaks, CA 91361  
Attention: Lisa Moreno

Project ID: ARCO 1992, Northridge

Report Number: IOC1750

Sampled: 03/21/05  
Received: 03/22/05

## VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
---------	--------	-------	-----------	-----------------	---------------	-----------------	----------------	---------------	-----------------

Sample ID: IOC1750-01 (GRAB-MW-16 - Soil)

Reporting Units: mg/kg

GRO (C4 - C12)	EPA 8015B	5C25006	0.13	0.87	0.91	0.867	03/25/05	03/25/05
----------------	-----------	---------	------	------	------	-------	----------	----------

Surrogate: 4-BFB (FID) (70-135%)

AZ

**Del Mar Analytical, Irvine**  
Wendy Kirkeeng For Chris Roberts  
Project Manager

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**IOC1750 <Page 2 of 8>**



SECOR International, Inc.-Thousand Oaks  
 290 Conejo Ridge Avenue, Suite 200  
 Thousand Oaks, CA 91361  
 Attention: Lisa Moreno

Project ID: ARCO 1992, Northridge

Report Number: IOC1750

Sampled: 03/21/05  
 Received: 03/22/05

## BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IOC1750-01 (GRAB-MW-16 - Soil) - cont.</b>									
Reporting Units: mg/kg									
Benzene	EPA 8260B	5C28020	0.034	0.10	ND	104	03/28/05	03/28/05	
<b>Ethylbenzene</b>	EPA 8260B	5C28020	0.027	0.10	<b>0.033</b>	104	03/28/05	03/28/05	J,DX
Toluene	EPA 8260B	5C28020	0.033	0.10	ND	104	03/28/05	03/28/05	
<b>o-Xylene</b>	EPA 8260B	5C28020	0.028	0.10	<b>0.14</b>	104	03/28/05	03/28/05	
<b>m,p-Xylenes</b>	EPA 8260B	5C28020	0.053	0.10	<b>0.29</b>	104	03/28/05	03/28/05	
<b>Xylenes, Total</b>	EPA 8260B	5C28020	0.053	0.20	<b>0.44</b>	104	03/28/05	03/28/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5C28020	0.051	0.25	ND	104	03/28/05	03/28/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5C28020	0.066	0.25	ND	104	03/28/05	03/28/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5C28020	0.068	0.25	ND	104	03/28/05	03/28/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5C28020	0.062	0.25	ND	104	03/28/05	03/28/05	
tert-Butanol (TBA)	EPA 8260B	5C28020	0.25	5.0	ND	104	03/28/05	03/28/05	
Ethanol	EPA 8260B	5C28020	4.3	15	ND	104	03/28/05	03/28/05	
<i>Surrogate: Dibromofluoromethane (55-155%)</i>							110 %		
<i>Surrogate: Toluene-d8 (60-160%)</i>							114 %		
<i>Surrogate: 4-Bromofluorobenzene (60-155%)</i>							117 %		

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Chris Roberts  
 Project Manager



SECOR International, Inc.-Thousand Oaks  
 290 Conejo Ridge Avenue, Suite 200  
 Thousand Oaks, CA 91361  
 Attention: Lisa Moreno

Project ID: ARCO 1992, Northridge  
 Report Number: IOC1750

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 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Sampled: 03/21/05  
 Received: 03/22/05

## METHOD BLANK/QC DATA

### VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-----	-------	-------------	---------------	------	-------------	---------	-----------	-----------------

Batch: 5C25006 Extracted: 03/25/05

**Blank Analyzed: 03/25/2005 (5C25006-BLK1)**

GRO (C4 - C12)	ND	1.0	0.15	mg/kg						
Surrogate: 4-BFB (FID)	0.0200			mg/kg	0.0200		100	70-135		

**LCS Analyzed: 03/25/2005 (5C25006-BS1)**

GRO (C4 - C12)	1.50	1.0	0.15	mg/kg	1.60		94	70-135		
Surrogate: 4-BFB (FID)	0.0705			mg/kg	0.0600		118	70-135		

**Matrix Spike Analyzed: 03/25/2005 (5C25006-MS1)**

<b>Source: IOC1787-07</b>										
GRO (C4 - C12)	0.384	1.0	0.15	mg/kg	0.424	ND	91	55-140		J,DX
Surrogate: 4-BFB (FID)	0.0203			mg/kg	0.0193		105	70-135		

**Matrix Spike Dup Analyzed: 03/25/2005 (5C25006-MSD1)**

<b>Source: IOC1787-07</b>											
GRO (C4 - C12)	0.477	1.0	0.15	mg/kg	0.472	ND	101	55-140	22	35	J,DX
Surrogate: 4-BFB (FID)	0.0236			mg/kg	0.0215		110	70-135			

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Chris Roberts  
 Project Manager



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 Thousand Oaks, CA 91361  
 Attention: Lisa Moreno

Project ID: ARCO 1992, Northridge  
 Report Number: IOC1750

Sampled: 03/21/05  
 Received: 03/22/05

## METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-----	-------	-------------	---------------	------	-------------	---------	-----------	-----------------

Batch: 5C28020 Extracted: 03/28/05

**Blank Analyzed: 03/28/2005 (5C28020-BLK1)**

Benzene	ND	0.10	0.034	mg/kg							
Ethylbenzene	ND	0.10	0.027	mg/kg							
Toluene	ND	0.10	0.033	mg/kg							
o-Xylene	ND	0.10	0.028	mg/kg							
m,p-Xylenes	ND	0.10	0.053	mg/kg							
Xylenes, Total	ND	0.20	0.053	mg/kg							
Di-isopropyl Ether (DIPE)	ND	0.25	0.051	mg/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	0.25	0.066	mg/kg							
tert-Amyl Methyl Ether (TAME)	ND	0.25	0.068	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	0.25	0.062	mg/kg							
tert-Butanol (TBA)	ND	5.0	0.25	mg/kg							
Ethanol	ND	15	4.3	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	3.34			mg/kg	2.50			134	55-155		
<i>Surrogate: Toluene-d8</i>	3.25			mg/kg	2.50			130	60-160		
<i>Surrogate: 4-Bromofluorobenzene</i>	3.27			mg/kg	2.50			131	60-155		

**LCS Analyzed: 03/28/2005 (5C28020-BS1)**

Benzene	2.68	0.10	0.034	mg/kg	2.50			107	75-120		
Ethylbenzene	2.90	0.10	0.027	mg/kg	2.50			116	80-120		
Toluene	2.72	0.10	0.033	mg/kg	2.50			109	80-120		
o-Xylene	2.75	0.10	0.028	mg/kg	2.50			110	80-125		
m,p-Xylenes	5.56	0.10	0.053	mg/kg	5.00			111	80-120		
Xylenes, Total	8.31	0.20	0.053	mg/kg	7.50			111	80-125		
Di-isopropyl Ether (DIPE)	2.83	0.25	0.051	mg/kg	2.50			113	65-140		
Ethyl tert-Butyl Ether (ETBE)	2.95	0.25	0.066	mg/kg	2.50			118	60-145		
tert-Amyl Methyl Ether (TAME)	3.01	0.25	0.068	mg/kg	2.50			120	60-150		
Methyl-tert-butyl Ether (MTBE)	2.92	0.25	0.062	mg/kg	2.50			117	55-150		
tert-Butanol (TBA)	15.8	5.0	0.25	mg/kg	12.5			126	75-140		
Ethanol	24.7	15	4.3	mg/kg	25.0			99	30-165		
<i>Surrogate: Dibromofluoromethane</i>	3.27			mg/kg	2.50			131	55-155		
<i>Surrogate: Toluene-d8</i>	3.24			mg/kg	2.50			130	60-160		
<i>Surrogate: 4-Bromofluorobenzene</i>	3.31			mg/kg	2.50			132	60-155		

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Chris Roberts  
 Project Manager



SECOR International, Inc.-Thousand Oaks  
 290 Conejo Ridge Avenue, Suite 200  
 Thousand Oaks, CA 91361  
 Attention: Lisa Moreno

Project ID: ARCO 1992, Northridge  
 Report Number: IOC1750

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 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Sampled: 03/21/05  
 Received: 03/22/05

## METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------------

Batch: 5C28020 Extracted: 03/28/05

LCS Dup Analyzed: 03/28/2005 (5C28020-BSD1)

Benzene	2.70	0.10	0.034	mg/kg	2.50	108	75-120	1	20	EX
Ethylbenzene	2.88	0.10	0.027	mg/kg	2.50	115	80-120	1	20	
Toluene	2.72	0.10	0.033	mg/kg	2.50	109	80-120	0	20	
o-Xylene	2.74	0.10	0.028	mg/kg	2.50	110	80-125	0	20	
m,p-Xylenes	5.56	0.10	0.053	mg/kg	5.00	111	80-120	0	20	
Xylenes, Total	8.30	0.20	0.053	mg/kg	7.50	111	80-125	0	20	
Di-isopropyl Ether (DIPE)	2.89	0.25	0.051	mg/kg	2.50	116	65-140	2	20	
Ethyl tert-Butyl Ether (ETBE)	3.00	0.25	0.066	mg/kg	2.50	120	60-145	2	25	
tert-Amyl Methyl Ether (TAME)	3.09	0.25	0.068	mg/kg	2.50	124	60-150	3	25	
Methyl-tert-butyl Ether (MTBE)	2.98	0.25	0.062	mg/kg	2.50	119	55-150	2	25	
tert-Butanol (TBA)	15.4	5.0	0.25	mg/kg	12.5	123	75-140	3	20	
Ethanol	22.7	15	4.3	mg/kg	25.0	91	30-165	8	30	
<i>Surrogate: Dibromofluoromethane</i>	3.33			mg/kg	2.50	133	55-155			
<i>Surrogate: Toluene-d8</i>	3.23			mg/kg	2.50	129	60-160			
<i>Surrogate: 4-Bromofluorobenzene</i>	3.32			mg/kg	2.50	133	60-155			

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Chris Roberts  
 Project Manager



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SECOR International, Inc.-Thousand Oaks  
290 Conejo Ridge Avenue, Suite 200  
Thousand Oaks, CA 91361  
Attention: Lisa Moreno

Project ID: ARCO 1992, Northridge  
Report Number: IOC1750

Sampled: 03/21/05  
Received: 03/22/05

## DATA QUALIFIERS AND DEFINITIONS

- AZ** Surr. recovery outside of acceptance limits due to matrix interf.  
**EX** Matrix spike diluted to not detectable during analysis  
**J,DX** EPA Flag - Estimated value, Value < lowest standard (MQL), but > than MDL  
**ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.  
**RPD** Relative Percent Difference

## ADDITIONAL COMMENTS

### For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD.  
The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

### For GRO (C4-C12):

GRO (C4-C12) is quantitated against a gasoline standard. Quantitation begins immediately following the methanol peak.

## 8015 Analysis EDF Parlabel Cross Reference

Analyte	EDF
Parlabel	
GRO (C4 - C12)	GROC4C12

**Del Mar Analytical, Irvine**  
Wendy Kirkeeng For Chris Roberts  
Project Manager



# Del Mar Analytical

SECOR International, Inc.-Thousand Oaks  
290 Conejo Ridge Avenue, Suite 200  
Thousand Oaks, CA 91361  
Attention: Lisa Moreno

Project ID: ARCO 1992, Northridge  
Report Number: IOC1750

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Sampled: 03/21/05  
Received: 03/22/05

## Certification Summary

### Del Mar Analytical, Irvine

Method	Matrix	Nelac	California
EPA 8015B	Soil	X	X
EPA 8260B	Soil-extr	X	X

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at [www.dmalabs.com](http://www.dmalabs.com).*

**Del Mar Analytical, Irvine**  
Wendy Kirkeeng For Chris Roberts  
Project Manager

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**IOC1750 <Page 8 of 8>**





Del Mar Analytical

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## LABORATORY REPORT

Prepared For: SECOR International, Inc.-Thousand Oaks  
290 Conejo Ridge Avenue, Suite 200  
Thousand Oaks, CA 91361  
Attention: Lisa Moreno

Project: ARCO 1992, Northridge  
Sampled: 08/04/05  
Received: 08/04/05  
Issued: 08/18/05 15:24

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain of Custody, 1 page, is included and is an integral part of this report.*  
*This entire report was reviewed and approved for release.*

### CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IOH0475-01	20050804-1992-01	Soil

Reviewed By:

Del Mar Analytical, Irvine  
Sushmitha Reddy For Chris Roberts  
Project Manager



Del Mar Analytical

SECOR International, Inc.-Thousand Oaks  
290 Conejo Ridge Avenue, Suite 200  
Thousand Oaks, CA 91361  
Attention: Lisa Moreno

Project ID: ARCO 1992, Northridge

Report Number: IOH0475

Sampled: 08/04/05  
Received: 08/04/05

**VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)**

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
---------	--------	-------	-----------	-----------------	---------------	-----------------	----------------	---------------	-----------------

**Sample ID: IOH0475-01 (20050804-1992-01 - Soil)**

**Reporting Units:** mg/kg

GRO (C4 - C12)                    EPA 8015B            5H05032            0.20            1.3            ND            1.3            08/05/05            08/05/05

*Surrogate: 4-BFB (FID) (70-135%)*

**Del Mar Analytical, Irvine**  
Sushmitha Reddy For Chris Roberts  
Project Manager

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Project ID: ARCO 1992, Northridge

Report Number: IOH0475

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Sampled: 08/04/05  
Received: 08/04/05

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IOH0475-01 (20050804-1992-01 - Soil) - cont.</b>									
<b>Reporting Units: ug/kg</b>									
Benzene	EPA 8260B	5H08026	0.58	2.3	ND	1.16	08/08/05	08/08/05	
Ethylbenzene	EPA 8260B	5H08026	0.59	2.3	ND	1.16	08/08/05	08/08/05	
Toluene	EPA 8260B	5H08026	1.1	2.3	ND	1.16	08/08/05	08/08/05	
o-Xylene	EPA 8260B	5H08026	0.55	2.3	ND	1.16	08/08/05	08/08/05	
m,p-Xylenes	EPA 8260B	5H08026	0.87	2.3	ND	1.16	08/08/05	08/08/05	
Xylenes, Total	EPA 8260B	5H08026	0.87	4.6	ND	1.16	08/08/05	08/08/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H08026	0.43	5.8	ND	1.16	08/08/05	08/08/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H08026	0.67	5.8	ND	1.16	08/08/05	08/08/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H08026	0.74	5.8	ND	1.16	08/08/05	08/08/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H08026	1.2	5.8	ND	1.16	08/08/05	08/08/05	
tert-Butanol (TBA)	EPA 8260B	5H08026	5.8	58	ND	1.16	08/08/05	08/08/05	
Ethanol	EPA 8260B	5H08026	140	350	ND	1.16	08/08/05	08/08/05	
<i>Surrogate: Dibromofluoromethane (80-125%)</i>									
<i>Surrogate: Toluene-d8 (80-120%)</i>									
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>									
100 %									
97 %									
97 %									

**Del Mar Analytical, Irvine**  
Sushmitha Reddy For Chris Roberts  
Project Manager

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**IOH0475 <Page 3 of 8>**



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Report Number: IOH0475

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Sampled: 08/04/05  
Received: 08/04/05

### METHOD BLANK/QC DATA

### VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
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**Batch: 5H05032 Extracted: 08/05/05**

**Blank Analyzed: 08/05/2005 (5H05032-BLK1)**

GRO (C4 - C12)	ND	1.0	0.15	mg/kg						
<i>Surrogate: 4-BFB (FID)</i>	<i>0.0204</i>			<i>mg/kg</i>	<i>0.0200</i>		<i>102</i>	<i>70-135</i>		

**LCS Analyzed: 08/05/2005 (5H05032-BS1)**

GRO (C4 - C12)	1.52	1.0	0.15	mg/kg	1.60		95	65-135		
<i>Surrogate: 4-BFB (FID)</i>	<i>0.0555</i>			<i>mg/kg</i>	<i>0.0600</i>		<i>92</i>	<i>70-135</i>		

**LCS Dup Analyzed: 08/05/2005 (5H05032-BSD1)**

GRO (C4 - C12)	1.31	1.0	0.15	mg/kg	1.60		82	65-135	15	20
<i>Surrogate: 4-BFB (FID)</i>	<i>0.0552</i>			<i>mg/kg</i>	<i>0.0600</i>		<i>92</i>	<i>70-135</i>		

**Del Mar Analytical, Irvine**  
Sushmitha Reddy For Chris Roberts  
Project Manager

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**IOH0475 <Page 4 of 8>**



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Report Number: IOH0475

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Sampled: 08/04/05  
Received: 08/04/05

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-----	-------	-------------	---------------	------	-------------	---------	-----------	-----------------

**Batch: 5H08026 Extracted: 08/08/05**

**Blank Analyzed: 08/08/2005 (5H08026-BLK1)**

Benzene	ND	2.0	0.50	ug/kg							
Ethylbenzene	ND	2.0	0.51	ug/kg							
Toluene	ND	2.0	0.91	ug/kg							
o-Xylene	ND	2.0	0.47	ug/kg							
m,p-Xylenes	ND	2.0	0.75	ug/kg							
Xylenes, Total	ND	4.0	0.75	ug/kg							
Di-isopropyl Ether (DIPE)	ND	5.0	0.37	ug/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	0.58	ug/kg							
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.64	ug/kg							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	1.0	ug/kg							
tert-Butanol (TBA)	ND	50	5.0	ug/kg							
Ethanol	ND	300	120	ug/kg							
<i>Surrogate: Dibromofluoromethane</i>	50.8			ug/kg	50.0		102	80-125			
<i>Surrogate: Toluene-d8</i>	48.8			ug/kg	50.0		98	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.2			ug/kg	50.0		98	80-120			

**LCS Analyzed: 08/08/2005 (5H08026-BS1)**

Benzene	45.0	2.0	0.50	ug/kg	50.0		90	65-120			
Ethylbenzene	48.4	2.0	0.51	ug/kg	50.0		97	70-125			
Toluene	47.4	2.0	0.91	ug/kg	50.0		95	70-125			
o-Xylene	46.5	2.0	0.47	ug/kg	50.0		93	70-125			
m,p-Xylenes	95.3	2.0	0.75	ug/kg	100		95	70-125			
Xylenes, Total	142	4.0	0.75	ug/kg	150		95	70-125			
Di-isopropyl Ether (DIPE)	46.0	5.0	0.37	ug/kg	50.0		92	60-135			
Ethyl tert-Butyl Ether (ETBE)	43.8	5.0	0.58	ug/kg	50.0		88	60-135			
tert-Amyl Methyl Ether (TAME)	44.8	5.0	0.64	ug/kg	50.0		90	60-140			
Methyl-tert-butyl Ether (MTBE)	42.8	5.0	1.0	ug/kg	50.0		86	55-140			
tert-Butanol (TBA)	233	50	5.0	ug/kg	250		93	65-135			
Ethanol	463	300	120	ug/kg	500		93	35-160			
<i>Surrogate: Dibromofluoromethane</i>	49.9			ug/kg	50.0		100	80-125			
<i>Surrogate: Toluene-d8</i>	49.4			ug/kg	50.0		99	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.3			ug/kg	50.0		99	80-120			

**Del Mar Analytical, Irvine**  
Sushmitha Reddy For Chris Roberts  
Project Manager

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**IOH0475 <Page 5 of 8>**



**Del Mar Analytical**

SECOR International, Inc.-Thousand Oaks  
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Thousand Oaks, CA 91361  
Attention: Lisa Moreno

Project ID: ARCO 1992, Northridge

Report Number: IOH0475

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Sampled: 08/04/05  
Received: 08/04/05

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-----	-------	-------------	---------------	------	-------------	---------	-----------	-----------------

**Batch: 5H08026 Extracted: 08/08/05**

**Matrix Spike Analyzed: 08/08/2005 (5H08026-MS1)**

							Source: IOG2115-17		
Benzene	49.2	2.0	0.50	ug/kg	47.6	ND	103	65-130	
Ethylbenzene	51.2	2.0	0.51	ug/kg	47.6	ND	108	70-130	
Toluene	50.9	2.0	0.91	ug/kg	47.6	ND	107	70-125	
o-Xylene	48.8	2.0	0.47	ug/kg	47.6	ND	103	70-125	
m,p-Xylenes	99.8	2.0	0.75	ug/kg	95.2	ND	105	70-125	
Xylenes, Total	149	4.0	0.75	ug/kg	143	ND	104	70-125	
Di-isopropyl Ether (DIPE)	52.5	5.0	0.37	ug/kg	47.6	ND	110	60-145	
Ethyl tert-Butyl Ether (ETBE)	50.8	5.0	0.58	ug/kg	47.6	ND	107	60-140	
tert-Amyl Methyl Ether (TAME)	52.2	5.0	0.64	ug/kg	47.6	ND	110	60-145	
Methyl-tert-butyl Ether (MTBE)	51.0	5.0	1.0	ug/kg	47.6	ND	107	55-150	
tert-Butanol (TBA)	298	50	5.0	ug/kg	238	ND	125	65-140	
Ethanol	513	300	120	ug/kg	476	ND	108	25-160	
<i>Surrogate: Dibromofluoromethane</i>	48.4			ug/kg	47.6		102	80-125	
<i>Surrogate: Toluene-d8</i>	46.9			ug/kg	47.6		99	80-120	
<i>Surrogate: 4-Bromofluorobenzene</i>	45.8			ug/kg	47.6		96	80-120	

**Matrix Spike Dup Analyzed: 08/08/2005 (5H08026-MSD1)**

							Source: IOG2115-17		
Benzene	50.1	2.0	0.50	ug/kg	48.7	ND	103	65-130	2
Ethylbenzene	52.7	2.0	0.51	ug/kg	48.7	ND	108	70-130	3
Toluene	51.3	2.0	0.91	ug/kg	48.7	ND	105	70-125	1
o-Xylene	50.3	2.0	0.47	ug/kg	48.7	ND	103	70-125	3
m,p-Xylenes	103	2.0	0.75	ug/kg	97.5	ND	106	70-125	3
Xylenes, Total	153	4.0	0.75	ug/kg	146	ND	105	70-125	3
Di-isopropyl Ether (DIPE)	51.1	5.0	0.37	ug/kg	48.7	ND	105	60-145	3
Ethyl tert-Butyl Ether (ETBE)	48.5	5.0	0.58	ug/kg	48.7	ND	100	60-140	5
tert-Amyl Methyl Ether (TAME)	48.6	5.0	0.64	ug/kg	48.7	ND	100	60-145	7
Methyl-tert-butyl Ether (MTBE)	47.4	5.0	1.0	ug/kg	48.7	ND	97	55-150	7
tert-Butanol (TBA)	316	50	5.0	ug/kg	244	ND	130	65-140	6
Ethanol	568	300	120	ug/kg	487	ND	117	25-160	10
<i>Surrogate: Dibromofluoromethane</i>	48.8			ug/kg	48.7		100	80-125	
<i>Surrogate: Toluene-d8</i>	48.1			ug/kg	48.7		99	80-120	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.1			ug/kg	48.7		97	80-120	

**Del Mar Analytical, Irvine**  
Sushmitha Reddy For Chris Roberts  
Project Manager

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Del Mar Analytical

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Project ID: ARCO 1992, Northridge  
Report Number: IOH0475

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Sampled: 08/04/05  
Received: 08/04/05

## DATA QUALIFIERS AND DEFINITIONS

- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.  
**RPD** Relative Percent Difference

## ADDITIONAL COMMENTS

**For 8260 analyses:**

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD.  
The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

**For GRO (C4-C12):**

GRO (C4-C12) is quantitated against a gasoline standard. Quantitation begins immediately following the methanol peak.

**Del Mar Analytical, Irvine**  
Sushmitha Reddy For Chris Roberts  
Project Manager



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Sampled: 08/04/05  
Received: 08/04/05

## Certification Summary

### Del Mar Analytical, Irvine

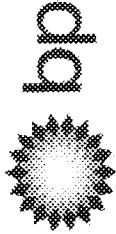
Method	Matrix	Nelac	California
EPA 8015B	Soil	X	X
EPA 8260B	Soil	X	X

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at [www.dmalabs.com](http://www.dmalabs.com).*

**Del Mar Analytical, Irvine**  
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Project Manager

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**IOH0475 <Page 8 of 8>**



## Chain of Custody Record

**Project Name:**  
**BP BU/AR Regi**  
**State or Lead R**

Abandonment \_\_\_\_\_ on/Enfos Segment: RETAIL (Coastal +C, LA) \_\_\_\_\_  
Regulatory Agency: \_\_\_\_\_ Requested Due Date (08/25/05): Standard \_\_\_\_\_

On-site Time:	<b>1120</b>	Temp:	
Off-site Time:	<b>1130</b>	Temp:	
Sky Conditions:	<b>Scary</b>		
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name:	Del Mar Analytical	BP/AR Facility No.:	1992	Consultant/Contractor:	SECOR International, Inc
Address:	17461 Delian Ave Ste 100	BP/AR Facility/Address:	9454 Corbin Ave, Northridge, CA	Address:	290 Conejo Ridge Ave Suite 200
Site Lat/Long:	Irvine, CA 92614	Site Lat/Long:	34.242/-118.562	Project No.:	37BP 01992-03
Lab PM:	Chris Roberts	California Global ID No.:	T0603702170	Consultant/Contractor Project No.:	LISA MORENO/ANDY MODUGNO
Tele/Fax:	949-261-1022	Enfco Project No.:	G09KO-0050	Tele/Fax:	805-230-1266/805-230-1277
BP/AR PM Contact:	Ray Vose	Provision for RCOP (circle one)		Report Type & QC Level:	Standard
Address:	4 Centerpoint Dr.	Phase/NBS:	Soil	Email EDD To:	bauchard@secor.com
Tele/Fax:	La Palma, CA	Sub Phase/Task:	Analytical	Invoice to: Consultant & BP or Atlantic Richfield Co. (circle one)	
Lab Bottle Order No.:	818-957-1755	Cost Element:	Sub Contracted Cost	Requested Analysis	
Item No.	Sample Description	Matrix	Preservative		
1	20050804-112-01	Air	No. of Containers		
2		Water/Liquid	Methanol		
3		Soil/Solid	HCl		
4			HNO <sub>3</sub>		
5			H <sub>2</sub> SO <sub>4</sub>		
6			Unpreserved		
7					
8					
9					
10					
Sampler's Name:	Rick O'Neill	Relinquished By / Affiliation	Date	Accepted By / Affiliation	Date
Sampler's Company:	SECOR	20050804-112-01	8/4/05	20050804-112-01	8/4/05
Shipment Date:	8/04/05				
Shipment Method:	Ground				
Shipment Tracking No.:	DRAFT				
Special Instructions:					

BP COC Rev. 4 10/1/04

Distribution: White Copy Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor